Simultaneous Equations
Elimination Method
Grade 11

The following questions have been solved incorrectly. Find the mistake in each question, make the corrections and find the correct solutions.

$$12x - 6y = 12$$
$$10x + 6y = 32$$

Subtracting

$$2x = -20$$
$$\frac{2x}{2} = \frac{-20}{2}$$

$$x = -10$$

Substitute x = -10 into equation 2

$$10(-10) + 6y = 32$$
$$-100 + 6y = 32$$
$$6y = 32 + 100$$
$$6y = 132$$
$$\frac{6y}{6} = \frac{132}{6}$$

$$y = 22$$

$x =$ _____ $y =$ _____

$$3x + 2y = 14$$
$$4x + 2y = 16$$

Subtracting

$$x = -2$$

Substitute x = -2 into equation 1

$$3(-2) + 2y = 14$$
$$-6 + 2y = 14$$
$$2y = 14 + 6$$
$$2y = 20$$
$$\frac{2y}{2} = \frac{20}{2}$$

$$y = 10$$

$x =$ _____ $y =$ _____

LIVEWORKSHEETS